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OM nucleic - nucleic search, using sw model

Run on: June 30, 2002, 09:49:45 ; Search time 2325.7 seconds
(without alignments)
992.189 Million cell updates/sec

Title: US-09-303-518D-131
Perfect score: 1344
Sequence: 1 atgattaaatacaataaaagg.....ccattgagaagaagctga 1344

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1736436 seqs, 858457221 residues

Total number of hits satisfying chosen parameters: 3472872

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : N_Geneseq_032802.*

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- 2: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT.*
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- 4: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT.*
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- 19: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT.*
- 20: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT.*
- 21: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT.*
- 22: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT.*
- 23: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.*
- 24: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1344	100.0	1344	20	AAZ12028
2	1212.8	90.2	1344	20	AAZ12026
3	1212.8	90.2	44608	21	AAAB18195
4	1212.8	90.2	349980	21	AAAF21607
5	1165.4	86.7	1344	20	AAZ12027
6	545.8	40.6	1830121	17	AAAT42063
7	433.6	32.3	474	20	AAZ12025
8	433.6	32.3	474	21	AAAB1335
9	363	27.0	363	21	AAZ54033

10	348.8	26.0	96109	22	AAZ28548
11	324.6	24.2	363	21	AAZ54034
12	300.6	22.4	363	20	AAZ54035
13	126.4	9.4	1353	21	AAZ91657
14	126.4	9.4	1362	20	AAZ91536
15	126.4	2.9	125401	22	AAZ17186
16	38.2	2.8	38734	22	AAZ33020
17	38.2	2.7	38734	22	AAZ90077
18	35.8	2.7	5036	22	AAZ13450
19	35.8	2.7	4403765	22	AAZ19683
20	35.8	2.7	4411529	22	AAZ19682
21	35.6	2.6	5059	20	AAZ84332
22	35.6	2.6	4403765	22	AAZ19683
23	35.6	2.6	4411529	22	AAZ19682
24	35.4	2.6	10732	21	AAZ10594
25	35.4	2.6	10732	21	AAZ66442
26	35.2	2.6	1938	23	AAZ86095
27	35.2	2.6	697	22	AAZ25080
28	35	2.6	1139	21	AAZ21735
29	35	2.6	1689	21	AAZ86098
30	35	2.6	1325	22	AAZ85732
31	34.8	2.6	1743	23	AAZ85741
32	34.8	2.6	1875	23	AAZ82534
33	34.8	2.6	2196	23	AAZ85733
34	34.8	2.6	2196	23	AAZ89351
35	34.8	2.6	2196	23	AAZ89351
36	34.8	2.6	2909	23	AAZ73293
37	34.8	2.6	3810	23	AAZ82533
38	34.8	2.6	3810	23	AAZ89350
39	34.8	2.6	783	23	ABZ02343
40	34.4	2.6	2783	23	ABZ02342
41	34.4	2.5	25365	23	AAZ59558
42	34.2	2.5	1191	23	AAZ54057
43	34	2.5	2367	23	AAZ73398
44	33.8	2.5	2367	23	AAZ88512
45	33.8	2.5	2367	23	AAZ83229
46	33.8	2.5	2367	23	AAZ85742
47	33.6	2.5	1098	23	AAZ85030
48	33.6	2.5	1725	22	AAZ85028
49	33.6	2.5	2109	24	AAZ18131
50	33.6	2.5	3475	23	AAZ02112
51	33.6	2.5	4086	23	AAZ02110
52	33.6	2.5	7215	20	AAZ13039
53	33.6	2.5	1359	22	AAZ65742
54	33.4	2.5	1773	22	AAZ68405
55	33.4	2.5	1896	22	AAZ68405
56	33.4	2.5	349980	22	AAZ68526
57	33.4	2.5	1488	23	AAZ54225
58	33.4	2.5	3747	23	AAZ73044
59	33.2	2.5	4590	22	AAZ24065
60	33.2	2.5	4901	23	AAZ92853
61	33.2	2.5	6813	23	AAZ85740
62	33.2	2.5	23394	22	AAZ71713
63	33.2	2.5	47536	21	AAZ14651
64	33.2	2.5	4632	21	AAZ36313
65	33.2	2.5	545	21	AAZ15192
66	33	2.5	783	23	AAZ54375
67	33	2.5	1596	17	AAZ03695
68	33	2.5	6312	17	AAZ03696
69	33	2.5	1618	16	AAZ05503
70	33	2.4	1618	18	AAZ80384
71	32.8	2.4	1618	18	AAZ62139
72	32.8	2.4	1618	18	AAZ62139
73	32.8	2.4	1618	19	AAZ47559
74	32.8	2.4	1618	19	AAZ47559
75	32.8	2.4	1618	20	AAZ02202
76	32.8	2.4	1618	20	AAZ96023
77	32.8	2.4	69936	21	AAZ81479
78	32.6	2.4	1116	22	AAZ28683
79	32.6	2.4	1116	24	AAZ02176
80	32.6	2.4	1119	21	AAZ64367
81	32.6	2.4	1119	21	AAZ01119
82	32.6	2.4	1119	21	AAZ46018

Genomic fragment #
Neisseria meningitidis
Neisseria meningitidis
Porphyromonas gingivae
Streptococcus pneumoniae
Human MTH1 relate
AL021529 cDNA clone
Mycobacterium tuberculosis
Mycobacterium tuberculosis
Stealth virus nucleocapsid
Mycobacterium tuberculosis
Mycobacterium tuberculosis
cDNA #195 encoding
Gene encoding a su
DNA encoding novel
DNA encoding novel
Nucleotide sequence
Human breast and o
DNA encoding novel
Human G-protein co
DNA encoding novel
DNA encoding novel
DNA encoding novel
DNA encoding novel
DNA encoding novel
DNA encoding novel
DNA encoding novel
DNA encoding novel
DNA encoding novel
Drosophila melanog
Drosophila melanog
Propionibacterium
Pseudomonas aeruginosa
DNA encoding novel
DNA encoding novel
DNA encoding novel
DNA encoding novel
Human cyclophilin
Human cyclophilin
Human DCR57 revers
Drosophila melanog
Drosophila melanog
Enterococcus faecalis
C glutamicum codin
C glutamicum codin
Corynebacterium gl
C glutamicum codin
Pseudomonas aeruginosa
DNA encoding novel
Yeast AOD9604-asso
DNA encoding novel
DNA encoding novel
Human immune/haema
Nucleotide sequenc
Mechanical stress
Trichoderma reesei
Beta-amylase S291A
Plasmid pBTR92, e
Leishmania sp. ant
DNA encoding libeif
Leishmania brazili
Leishmania antigen
Leishmania antigen
Leishmania antigen
N. meningitidis pa
Human protein HP03
Human G-protein-co
DNA encoding a pzy
Human orphan G pro
Human G protein co

83	32.6	2.4	1119	22	AAH49504	Human GTP-binding
84	32.6	2.4	1119	22	AAD02585	Human G-protein co
85	32.6	2.4	1119	22	AAF86237	Human G-protein co
86	32.6	2.4	1119	24	AAS98045	Human G-protein co
87	32.6	2.4	1237	24	AAS98085	Human DNA for pote
88	32.6	2.4	1560	24	AAS19414	Human DNA for pote
89	32.6	2.4	1720	22	AAF28693	Human cDNA encodin
90	32.6	2.4	2444	22	AAD26369	Human G-protein HP03
91	32.6	2.4	2480	22	AAD06509	Human G-protein co
92	32.6	2.4	2559	21	AAS95039	Human G-protein co
93	32.6	2.4	3180	22	AAF25830	Human G-protein co
94	32.6	2.4	15783	22	AAS39803	Genomic sequence #
95	32.6	2.4	15783	22	AAK90159	S. erythrae erythr
96	32.4	2.4	3412	20	AAK25772	S. erythrae erythr
97	32.4	2.4	3756	18	AAT72684	Sugar biosynthesis
98	32.4	2.4	3993	23	AAS88620	DNA encoding novel
99	32.4	2.4	5559	15	AAQ55260	Restriction fragme
100	32.4	2.4	5559	18	AAI99212	5.6 kb E11 Pseudom

ALIGNMENTS

RESULT 1

AAI2028
AAI2028 standard; DNA; 1344 BP.
AAI2028;

08-OCT-1999 (first entry)

Neisseria gonorrhoeae ORF22 polynucleotide sequence.

Neisseria meningitidis; Neisseria gonorrhoeae; antigen; vaccine;
treatment; Neisseria infection; meningitis; septicaemia; gonorrhea; ss.

Neisseria gonorrhoeae.

MO9924578-A2.

20-MAY-1999.

09-OCT-1998; 98WO-1B01665.

01-SEP-1998; 98GB-0019016.

06-NOV-1997; 97GB-0023516.

14-NOV-1997; 97GB-0024190.

18-NOV-1997; 97GB-0024386.

27-NOV-1997; 97GB-0025158.

10-DEC-1997; 97GB-0026147.

14-JAN-1998; 98GB-0000759.

(CHIR-) CHIRON SPA.

Grandi G, Masignani V, Pizzo M, Rappuoli R, Scarlato V;

WPI: 1999-372407/27.

P-PSDB; AAI38365.

Proteins from Neisseria meningitidis and N. gonorrhoeae useful for

diagnosis, treatment and prevention of infection

Claim 9: Page 125; 524pp: English.

Nucleotide sequences AAI1972-212358 represent open reading frames
(ORFs) of Neisseria meningitidis and N. gonorrhoeae which encode
antigenic proteins (see AAI38499-Y38944). The antigenic proteins, their
fragments, their nucleic acids and antibodies are used for diagnosis,
prevention (as vaccines) or treatment of Neisseria infections,
such as meningitis, septicaemia and gonorrhea. Both organisms
are closely related. Fragments of the nucleic acids are useful
as hybridisation probes and antisense reagents.

Sequence 1344 BP; 334 A; 363 C; 362 G; 285 T; 0 other;

Query Match 100.0%; Score 1344; DB 20; Length 1344;

Best Local Similarity 100.0%; Pred. No. 0; Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB	1	atgattaaatcaaaaaggttaaatctggccctcgagcgagcgagcaatcatt	60
QY	61	tatgaagcgccgagcattacccgaagtcggttcttgccgagaataatgttcgacgc	120
DB	61	tatgaagcgccgagcattacccgaagtcggttcttgccgagaataatgttcgacgc	120
QY	121	ccctgatgaataaataagaaggtgaacccgtcaaaaagcgcaagtgtttgaagac	180
DB	121	ccctgatgaataaataagaaggtgaacccgtcaaaaagcgcaagtgtttgaagac	180
QY	181	aaaaagaatccggcgtagtatttacttcgcccgttcgaagcaaatccgctattcac	240
DB	181	aaaaagaatccggcgtagtatttacttcgcccgttcgaagcaaatccgctattcac	240
QY	241	cgtagcgaagcgagcggtactcagtcagtcgtgattcggttggaagcagcagaatc	300
DB	241	cgtagcgaagcgagcggtactcagtcagtcgtgattcggttggaagcagcagaatc	300
QY	301	gagttcgaaacgctacgtacgaagcgctgcaaaattgagcagcgaaagatgcgcgc	360
DB	301	gagttcgaaacgctacgtacgaagcgctgcaaaattgagcagcgaaagatgcgcgc	360
QY	361	aacctgatcaataggttacttgactgcgttcgcacccgttcgttcgcaaatccct	420
DB	361	aacctgatcaataggttacttgactgcgttcgcacccgttcgttcgcaaatccct	420
QY	421	gcccgaacgagcgagcggttcgcaatcttgtaagcgatgagacacacatccgtgct	480
DB	421	gcccgaacgagcgagcggttcgcaatcttgtaagcgatgagacacacatccgtgct	480
QY	481	gcccgaacgagcgagcggttcgcaatcttgtaagcgatgagacacacatccgtgct	540
DB	481	gcccgaacgagcgagcggttcgcaatcttgtaagcgatgagacacacatccgtgct	540
QY	541	ttgagccgcttcgagcgaacgaaatccatctgttgaagcgagcgagcgagcgagcg	600
DB	541	ttgagccgcttcgagcgaacgaaatccatctgttgaagcgagcgagcgagcgagcg	600
QY	601	ttcgaagaatgctgcacatccgaacacacatgaatttggcgccgcatcccgcgcttg	660
DB	601	ttcgaagaatgctgcacatccgaacacacatgaatttggcgccgcatcccgcgcttg	660
QY	661	agtgcaagcgaatcattatccgaacgagcgagcgagcgagcgagcgagcgagcgag	720
DB	661	agtgcaagcgaatcattatccgaacgagcgagcgagcgagcgagcgagcgagcgag	720
QY	721	aattatcaagacgtgattgctatcgagcgttcttcgtaacagcgagcgagcgagcg	780
DB	721	aattatcaagacgtgattgctatcgagcgttcttcgtaacagcgagcgagcgagcg	780
QY	781	cggttggttcggttcggttcggttcggttcggttcggttcggttcggttcggttcg	840
DB	781	cggttggttcggttcggttcggttcggttcggttcggttcggttcggttcggttcg	840
QY	841	ggttcgaaggttctcaacttaccgagcgagcgagcgagcgagcgagcgagcgagcg	900
DB	841	ggttcgaaggttctcaacttaccgagcgagcgagcgagcgagcgagcgagcgagcg	900
QY	901	tcggttcggttcggttcggttcggttcggttcggttcggttcggttcggttcggttc	960
DB	901	tcggttcggttcggttcggttcggttcggttcggttcggttcggttcggttcggttc	960
QY	961	caaatcagattccgttatcgaagagcgagcgagcgagcgagcgagcgagcgagcgag	1020
DB	961	caaatcagattccgttatcgaagagcgagcgagcgagcgagcgagcgagcgagcgag	1020

OY	661	atgtggacgcacatcattcattatcagagccgttggcgcgaaataaaacgctgtggaccac	720
Db	25284	AGTGGACACCACATTCATTTCATCGACGGGTCCGGCGAATTAACCTGTGTGGACATC	25225
OY	721	aattacaagaacgtatgtactacacgattgtctgtaaacagccgcttgtaataccgag	780
Db	25224	AATTATCAGATGTATTAATTCATCTGTGGCGTTGTGTTTCACACAGCGCTGTGAACACGGAG	25165
OY	781	cgggtgtgtccttggcgcgctcgaagttaaaacacggccctcttggtagtaccgtttg	840
Db	25164	CGCGTGTATTCCTTCAGTGGTTCTCAAGTCAACAAACCGCGCTCTGTGCGTACCGTTTGG	25105
OY	841	ggttcgaaggtgtctcaactiacccgcgcgaattgtgttacgcgcgcgaacccgctgatt	900
Db	25104	GGTTCGGAAGTATTCGCAAAATTCCTCGGGCGGAATTGGTTGACACAGCAACCCGCGATT	25045
OY	901	tccggttcggtatitgaacggctgcgaatgtcaaaaggcgcgcatagtattttggagcctac	960
Db	25044	TCCGGTTCCGTTATTTGAACCGCGCGATTCACACAAAGCCGCGACGATTTATTTTGGAGACCTTAC	24985
OY	961	cacataaagattccgtttatcgaagaaggcgcgaacaaagctgttcgcgtgtgtgtgcg	1020
Db	24964	CACATACGATTTCCGTTATCGAAGAAGCCCGCACAAAGAGCTTTCGGCTGGGTGGG	24922
OY	1021	ccgcagccgcgaacaatactccatcacgcgcacacctctcgccatttccctaaataacaa	1080
Db	24924	CCGCAGCCGCGAATATCTCCATCACGCGTACACCCCTCGCGCATTTTCGTGAATAACAA	24865
OY	1081	ctcttcaagtatccgaagaacccgtcaacgcgcgcgcgcgcgcacatgtatccgatcgcgact	1140
Db	24864	CTCTTCAAGTTCAACACAGCCGTCAACGGCGGGCGACCCGCCATGTGTGCGATTGTGACT	24805
OY	1141	tatgagcgcgtaatgcctgttggaacacatcctgtcactctgtcttttggcgcgattaatcgtc	1200
Db	24804	TACGAGCCCGTATGCGCCTTGTGATATCCGCCACCCCTGTCTTTTCCGGATTATATGTC	24744
OY	1201	ggcgataccgcgaacgcgcgcgcgcgtttgggttctgttggaattgacgaagaagacctgcct	1260
Db	24744	GGCGATACCAGACAGCGCGACGGCATTTGGGTGCTTGGAATTTGGACGAAGAAGACCTCGCT	24685
OY	1261	tgtgtcagcttcgtctcgtccgcgcgcgaatacgaatacgcgcgcgtgtgtgcgaagtgtcgt	1320
Db	24684	TGTGTACAGCTTCGTCGTCCCGCGCAATATACGATACGCGCCCTGTTCGCGAAAGTGTCTG	24625
OY	1321	gaaacatttggagaaggaagcgtga	1344
Db	24624	GAACCATTTGAGAGGAAGGCTGA	24601
RESULT 4			
AAAF21607/c			
ID	AAAF21607	standard; DNA; 349980 BP.	
XX	AAAF21607;		
XX			
DT	13-MAR-2001	(first entry)	
DE			
XX	Neisseria meningitidis B nucleotide sequence SEQ ID NO:108.		
KW	Neisseria meningitidis; Neisseria gonorrhoeae; immunogenic; vaccine;		
KW	diagnosis; antigen; detection; infection; gene therapy; antibacterial;:		
KW	ds.		
OS	Neisseria meningitidis.		
XX			
FN	WO200066791-A1.		
PD	09-NOV-2000.		
XX			
PF	08-MAR-2000; 2000WO-US05928.		
XX			
PR	30-APR-1999; 99US-0132068.		

PR 08-OCT-1999: 99WO-US23573.
PR 28-FEB-2000: 2000GB-0004695.
XX
XX
PA (CHIR) CHIRON CORP.
PA (GENO-) INST GENOMIC RES.
XX
XX Pizsa M, Hickey E, Peterson J, Tettelin H, Venter JC, Maignani V,
PI Galeotti C, Mora M, Ratti G, Scarselli M, Scariato V, Rappelli R;
PI Frazer CM, Grandi G;
XX
XX WPI: 2000-647603/62.
DR
XX
XX Neisseria meningitidis B full length genome sequence and open reading
PT frames are used to detect, treat and prevent Neisseria infections -
XX
XX
PS Claim 7; Appendix A; 692pp; English.

The present invention describes the full length genome of *Neisseria meningitidis* B (NMB). The sequences in AAF21544 and AAF21607 to AAF21613 represent fragments of the NMB genomic sequence, as the sequence was too long to go in a record on its own it was split into 8 sequences which overlap each other at the beginning and end of each sequence by 49980 bp (i.e. the last 49980 bp of AAF21544 is repeated at the beginning of AAF21607, the last 49980 bp of AAF21607 are repeated at the beginning of AAF21608, and so on). AAF21545 to AAF21588 encode the *Neisseria* proteins given in AAB58550 to AAB58553, and AAF21589 to AAF21606 represent PCR primers which are used in the exemplification of the present invention. The NMB genome and fragments from it have antibacterial activity, and can be used in vaccines and gene therapy. *Neisseria* nucleic acids, proteins and/or antibodies which binds to the proteins can be used in compositions for treating or preventing infection due to *Neisseria* bacteria or as a diagnostic reagent for detecting the presence of *Neisseria* bacteria or of antibodies raised to *Neisseria* bacteria. Computers, computer memory, computer storage medium or computer databases can be used in a search to identify open reading frames (ORFs) or coding sequences within the NMB genome. The DNA sequences provide further opportunities to find antigenic or immunogenic proteins which are more effective in vaccines than the outer membrane proteins currently used.

AA	Sequence
SQ	349980 BP; 84410 A; 84863 C; 94187 G; 86520 T; 0 other

Query Match	90.28	Score	1212.8	DB 21	Length	349980	
Best Local Similarity	93.98	Pred. No.	0				
Matches 1262	0	Mismatches	82	Indels	0	Gaps	0

Qy	1	atgattaaatacaaaaaagcttaactcttccatctgcggagacgcgaagcaatcct	60
Db	297909	ATATTAAATCAAAAAAGTCTAAACCTGCCATCCGGGCGACCGGAGCAACCGTT	297850
Qy	61	tatcagcgcgccgcgcattaccgaagtcgcgttcttggtgcgaagatatgtcgcatgcg	120
Db	297849	TACGACGGCGCCGCCATTACCGAAGTCCGTTGCTTGCGCAAAATATCCGCTATGGC	297790
Qy	121	ccctcgatgaaaaatcaaggaaggtgaaagcgttcaaaaaagcgaagtgcgttttaagac	180
Db	297789	CCCTCGATGAAGTCAAGGAAGGCCATCCGTCTCAAAAAGGCCAAGTGTCTTTGAAGAC	297730
Qy	181	aaaaagaatccggcgctatcttactctgcgcggctctcaagcaaatcgccgctatcaac	240
Db	297729	AAAAAGATCCGGCGCTGTGTTACTGTCGCGCGCTTCAGGCAAAATCGCGCGATTCAC	297670
Qy	241	ctgtgcgaaaaagcgcgtactctcaagtcagtcgttgtttgcgttgaagcaacgcgaatac	300
Db	297669	CGTGGCCAAAAAGGCGCTACTTTAGTACGTCGATGTGCGTTGACGCAACGACGAATC	297610
Qy	301	gagtcgaacgcgaagctacctgaagcgccttgcgaaatgtgacgaagcaaaaagtgcgcgc	360
Db	297609	GAGTTTAACGCTACCGCAGCTGAAGCGGTGGCAAACTTAACGGCGCAAGAGTGCCTCCG	297550
Qy	361	aacctgatcaatcaagcttatggaactgcgctctgcacccgtcgtttcagcaaatccct	420

[illegible]

ID	AA142063 standard; DNA; 1830121 BP.
XX	AA142063;
AC	
XX	
DT	14-SEP-1999 (first entry)
XX	
DE	Haemophilus influenzae complete genome sequence.
XX	
KX	Genome; bacterium; Haemophilus influenzae; computer readable medium;
KW	expression modulating fragment; regulation; gene expression; vector;
KW	organism; open reading frame; ORF; ds.
XX	
OS	Haemophilus influenzae.
XX	
PN	W09633276-A1.
PD	
XX	24-OCT-1996.
XX	
PF	22-APR-1996; 96WO-US05320.
XX	
PR	07-JUN-1995; 95US-0487429.
PR	21-APR-1995; 95US-0426787.
PR	07-JUN-1995; 95US-0476102.
XX	
PA	(HUMAN-) HUMAN GENOME SCI INC.
XX	(UYUO) UNIV JOHNS HOPKINS.
PI	
XX	Adams MD, Fleischmann RD, Smith HO, Venter JC, White O;
DR	WPI; 1996-485782/48.
XX	
PT	Haemophilus influenzae Rd genome recorded on computer readable
PT	medium - useful for identifying commercially important nucleic acid
PT	fragments by homology searching
XX	
XX	Claim 1; Page 77.2-77.1091; 1291pp; English.
XX	
CC	This sequence represents the complete genome sequence of the bacterium
CC	Haemophilus influenzae strain Rd. The invention relates to a computer
CC	readable medium (CRM) having recorded upon it the complete H. influenzae
CC	nucleotide sequence (I), a representative fragment of (I) or a nucleotide
CC	sequence at least 99% identical to (I). By providing the full-length
CC	genomic sequence in a computer readable form, it is possible to identify
CC	commercially important nucleic acid fragments and expression modulating
CC	fragments (EMFs) of the Haemophilus genome. The EMFs can be used to
CC	regulate the expression of a nucleic acid molecule. Vectors and altered
CC	organisms comprising the predicted ORFs can be used to produce any of the
CC	polypeptide fragments of the H. influenzae Rd genome.
XX	
SQ	Sequence 1830121 BP; 567399 A; 350615 C; 347389 G; 564036 T; 682 other;
Query Match	40.6%; Score 545.8; DB 17; Length 1830121;
Best Local Similarity	63.8%; Pred. NO. 4.9e-155;
Matches 860; Conservative	0; Mismatches 482; Indels 5; Gaps 2
Qy	1 atgtttaaatacaaaaagctctaactctgccatcgcgagccgagcaagtcacat 60
Db 179007	atgtatacaataaagaagtttgatctcccaattgcggaaacacgacaaagtaac 179066
Qy	61 tatgacgcccgcgcattaccgaagtcgcgttcttgaggagaatattgctgcgcatg 120
Db 179067	catagcgcaacgctgttaacaaacttgcattctatagttagaagagattgaggagtcgt 179126
Qy	121 cccctcgatgaataacaagaagtggaagccgcaaaaagccagcagtcgtttgaagac 180
Db 179127	ccctcaatgaagtgcgcggaagcgagtttgtaaaaaaaggtcaagtaacttttgaagac 179186
Qy	181 aaaaagaatccggcgctagattactactgcgcggcttcaggaacaaatcgccgcatattcac 240
Db 179187	aaaaaataactccttggttaatttttaacgccccttcgaagcggctaccatcactatgcacat 179246
Qy	241 cgtgacgaaaagcgcgtactcctcagtcagtcgttgattgcgcttggaagcgaacgcaaatc 300

XX 01-MAY-1998; 98US-0083758.
 PR 31-JUL-1998; 98US-0094869.
 PR 02-SEP-1998; 98US-0098994.
 PR 02-SEP-1998; 98US-0099062.
 PR 09-OCT-1998; 98US-0103749.
 PR 09-OCT-1998; 98US-0103796.
 PR 09-OCT-1998; 98US-0103796.
 PR 25-FEB-1999; 99US-0121528.

XX (CHIR) CHIRON CORP.
 PA (GENO-) INST GENOMICS RES.
 XX

PI Fraser C, Galeotti C, Grandi G, Hickey E, Maignani V, Mora M;
 PI Petersen J, Pizsa M, Rappoli R, Ratil G, Scalato E, Scarselli M;
 PI Tettelin H, Venter JC;

DR WPI: 2000-062150/05.
 DR P-PSDB; AAY75271.

PT Novel Neisserial polypeptides predicted to be useful antigens for
 PT vaccines and diagnostics

PS Claim 7, Page 1003; 1453pp; English.

XX AA253015 to AA254536, AA254577 to AA254615, and AAY74253 to AAY75941
 CC represent novel Neisseria meningitis and N. gonorrhoeae polynucleotides
 CC and polypeptides. AA254537 to AA254576 and AA254616 to AA25473 represent
 CC PCR primers used in the exemplification of the present invention. The
 CC polypeptides, the polynucleotides, antibodies and compositions of
 CC the invention can be used as vaccines, as diagnostic reagents, and as
 CC immunogenic compositions. The polypeptides can be used in the
 CC manufacture of medicaments for treating or preventing infection due to
 CC Neisserial bacteria (e.g. meningitis and septicemia), to detect the
 CC presence of Neisseria bacteria, or to raise antibodies. They may also
 CC be used to screen for agonists or antagonists, which may themselves
 CC have use as antibacterial agents. The polynucleotides of the invention
 CC may also be used in gene therapy protocols.

XX Sequence 363 BP; 71 A; 92 C; 109 G; 91 T; 0 other;

Query Match 27.0%; Score 363; DB 21; Length 363;
 Best Local Similarity 100.0%; Pred. No. 7.3e-101;
 Matches 363; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 312 ctacttactgaagcgtcgtgcaaaattgagcagcgaagtgccgcgaactgtatca 371
 DB 363 CTACGTACTGAAAGCGCTGGCAAAATTGACGAGCAAAAGTGCCTGCGCAACTGATTC 304
 XX 372 atcaggtctatggaactgcgtcgcacccgtcgttcaagaanaatccgtccgtaatgc 431
 DB 303 ATCAGGCTTATGAGCTGGCTTCGACCCCTGCTTACGAAATCCCTGCTATATGC 244
 XX 432 cgaagcgttcgcaacttcgtcaatgcgatgagacccaatccgtcgtgcgcgacccctac 491
 DB 243 CGAGCCCGTCCGCACTCTTCATATGATGATGACACCAATCCGCTGCGTACCGACCTTC 184
 XX 492 gttcatcatcaagaagcgcgcgaagcttcaaacgcgcgtgtgtgtatttgaagccgct 551
 DB 183 GGTATCATCAAGAAACCCGCCGAGACTTCAAAACGCGCTGTTGATTTAGCGCGCT 124
 XX 552 gaccgaagctaaatccatgtgttaagcagcagcgcgaagctgcgttcgtgaanaatgc 611
 DB 123 GACCGAAGCTAAATCATGTGTAAAGCAGCAGCGCAGACGACGTCTTGAATAATGC 64
 XX 612 tgcataatcgaagaacacatgaatttggcggccgcgaactcctcgcgcgttgaatgagcagca 671
 DB 63 TGCATAATTCGAAACATGAATTTGGCGCGCGCATCTCGCGCTTGAATGAGCAGCA 4
 XX 672 cat 674
 DB 3 CAT 1

RESULT 10
 ID AAF28548/C
 ID AAF28548 standard; DNA; 96109 BP.

XX AAF28548;
 XX 04-APR-2001 (first entry)
 DE Genomic fragment #35.

XX Genomic library; bacteria; human upper airway; otitis media; sinusitis;
 KW Bronchopulmonary; endocarditis; meningitis; ss.

XX Moraxella catarrhalis.
 OS
 PN WO200078968-A2.

PD 28-DEC-2000.

PF 16-JUN-2000; 2000WO-US16649.

PR 18-JUN-1999; 99US-0140121.

PA (INCY-) INCYTE GENOMICS INC.

PI Lagace RE, Patterson C, Berg KL;

DR WPI: 2001-041427/05.

XX Genomic library for identifying diagnostic and therapeutic
 PT compositions, and for identifying virulence factors, regulatory
 PT elements and drug targets, comprises Moraxella catarrhalis nucleic
 PT acids

XX Claim 1; Page 345-368; 545pp; English.

XX The present invention relates to a Moraxella catarrhalis genomic library
 CC comprising of a combination of 41 nucleic acid molecules (see
 CC AAF28514-AAF28554). The library has a number of uses described in the
 CC specification e.g. is useful for identifying diagnostic and therapeutic
 CC compositions. M. catarrhalis (Branhamella catarrhalis) is a large
 CC aerobic, gram-negative diplococcus, normally found among the bacterial
 CC flora of human upper airways. M. catarrhalis is known to cause acute,
 CC localised infections such as otitis media, sinusitis and bronchopulmonary
 CC infection and life-threatening, systemic diseases including endocarditis
 CC and meningitis.

XX Sequence 96109 BP; 28783 A; 18910 C; 20341 G; 28075 T; 0 other;

Query Match 26.0%; Score 348.8; DB 22; Length 96109;
 Best Local Similarity 55.2%; Pred. No. 2.5e-95;
 Matches 749; Conservative 0; Mismatches 592; Indels 15; Gaps 3;

XX 1 atgattaaatcaaaaaggcttaaatctgccatcgcgagcagcagcgaagtcatt 60
 DB 85201 ATGATTACATCAAAAAGGCTTGATCTGCCATCTACCTGGGACCTCCCAAGCAATT 85142
 XX 61 taigaagcggcggcattacgaagtcgctgcttggtgcgaagaatgctgcgacgc 120
 DB 85141 AGCGAGCAGCAGCGCCACTA---AGTGGCGTTAGTCGCTACGATTATGCGCATGCGT 85085
 XX 121 cctcgatgaanaatcaagaagtgtaagcgtcaaaaaggcgaagtgcgtttgaagac 180
 DB 85084 CGACCATGATGATTCAAAAGAGTGAAGTACACCAAGGACAGGTCTTTACGAAGAC 85025
 XX 181 aaaaagaatcggcgtagtattacttcgctgcgcgttcgaacaaatcgcgcgtatcac 240
 DB 85024 AAAAAAGCAGACGCGCTCTTATACAGACCAAGTTGGCGGACATGTCGTGCTCAAT 84965
 XX 241 cgtgcgaagaagcgcgtactcagtcagtcgtagtcgcttg-----aagcaacgac 294

PN W09929870-A1.
 XX 17-JUN-1999.
 PD 10-DEC-1998; 98MO-AU01023.
 XX 04-AUG-1998; 98AU-0005028.
 PR 10-DEC-1997; 97AU-0000839.
 PR 31-DEC-1997; 97AU-0001182.
 PR 30-JAN-1998; 98AU-0001546.
 PR 10-MAR-1998; 98AU-0002264.
 PR 09-APR-1998; 98AU-0002911.
 PR 23-APR-1998; 98AU-0003128.
 PR 22-MAY-1998; 98AU-0003338.
 PR 29-JUL-1998; 98AU-0003654.
 PR 29-JUL-1998; 98AU-0004917.
 XX (CSLC-) CSL LTD.
 PA Agius CT, Barr IG, Hocking DM, Margetts MB, Patterson MA;
 PI Ross BC, Rothel LJ, Webb EA;
 PI WPI; 1999-385613/32.
 DR P-PSDB; AAY34318.
 XX Antigenic Porphyromonas gingivalis peptides for preventing
 PT gingivitis
 PS Claim 12; Page 96; 588bp; English.
 XX AAX91536 to AAX91801 encode two hundred and sixty six antigenic
 CC Porphyromonas gingivalis (PG) polypeptide sequences given in AAY34318 to
 CC AAY34583. AAX91802 to AAX91899 represent PCR primers used in the
 CC isolation of the PG polypeptides. The PG polypeptides have antibacterial
 CC activity with a vaccine mechanism of action. The PG polypeptides can be
 CC used as vaccines especially against Porphyromonas gingivalis. Probes can
 CC be used to detect Porphyromonas gingivalis in standard hybridisation
 CC assays. Porphyromonas gingivalis is involved in periodontal disease
 CC especially gingivitis.
 CC
 SQ Sequence 1362 BP; 337 A; 335 C; 381 G; 309 T; 0 other;
 Query Match 9.4%; Score 126.4; DB 20; Length 1362;
 Best Local Similarity 46.7%; Pred. No. 3.9e-28;
 Matches 631; Conservative 0; Mismatches 691; Indels 30; Gaps 6;
 QY 2 tgatataaatcaaaaaggtctaatctgcccatcgcgccagacacggcgagcaatcattt 61
 DB 20 ttataaaaacaaaaaagccttgacttaattgaaagaaaacgcgtgcgagatgc 79
 QY 62 atgacgagccggc---attacgaagtcgctgtgcttgccggaagataatgtcggatgc 118
 DB 80 tggcgcgaacccggcccaagtcctactactacggtcgctgcgcgagatttgagtgta 139
 QY 119 gccctcgatgaataatcaagaagtgtaagcgctcaaaaagacgaagtcgtttgaag 178
 DB 140 tccccaagtgagagcgctcgctccggggatagtgctgctcgaagtcgaactgagccac 199
 QY 179 acaaaaagaatccggcgctagatattactgctgcgcgcttcagcaaaaatcgccctattc 238
 DB 200 acaagagatattccgagatgaatttaacagtcggtttagcgcggaagtgatcggtgga 259
 QY 239 accgtgcgaagaagcgctactcaatcagtcgtgtgttcggttgaagcaagcaagaa 298
 DB 260 atcgcggtgcgaagcgcaagtggttgagatcgaagtgtaaacggaagcagtcagatc 319
 QY 299 tcgagtcgaacgctacgtaacgtaagcgctgcaaaaatggaagcgaagaaagtcgccc 358
 DB 320 acgagtaattccctgctcggtggt-----cgctgcctctctctgcggaacgatacaag 373
 QY 359 gcaactgataatcagagcttatgactcgcttcgcacccgcttcgctcagcaaatcc 418

DB 374 agcttactgtcagagcggtatgtggtttatttaagaacgctcttaacagatagtg 433
 QY 419 ctgcgtagatggtccgagcgcttcgcatcttcgtaacgatgtagacccaatccgtcg 478
 DB 434 ctacaccgatatagctccacgcgacattatataatcgtccaaacttaactgtcacatattg 493
 QY 479 ctgcgaacccctacgctacatcaatcaagaagccgccaagacttcaaaacgctgttg 538
 DB 494 ctccgaacttcgattcactgcgttcgaggaagaagcgcctcgacatgcatcgatg 553
 QY 539 tattgagcgcttgacccgagcaagtaaatccgtgtgtgtgaagcagcgagcgagtcg 598
 DB 554 ccttgcccaactccacgacgagaagtgatgtgtgtgtgtgtgtgtgtgtgtgtgtgt 613
 QY 599 cgtctgaagaatgctgcataatcgaagaacatgaatttggcgccgacatccgtcggt 658
 DB 614 gcttgacacatgcagaatcgtagaagta-----cgacatcctcgcgagtgta 664
 QY 659 tgagtgacagcagcatltaattatcagcagtcgagcgaataaaacgctgtgagca 718
 DB 665 acgt 724
 QY 719 tcaattatcaagaagcgt 778
 DB 725 tcaaggtacagcagcctgt 784
 QY 779 agcgt 838
 DB 785 ccagaatgt 844
 QY 839 tgggtgcaaggt 892
 DB 845 cgggt 904
 QY 893 gctgtatttcggt 952
 DB 905 gttgtatgtagatgt 964
 QY 953 gacgtacacaaatcaatlttcgtatcgaaagaagccgagca---aagagctgtgtcg 1009
 DB 965 cagcccggt 1024
 QY 1010 gctgt 1069
 DB 1025 ggt 1084
 QY 1070 ---taaaaacaaacttcaagtlcaagcagcgtlcaacggtgcgagcgcgcgcgtatg 1126
 DB 1085 aggggaaaaacaaagtagtactcgtatgcgagtcgaaggtgtgtgtgtgtgtgtgtgt 1144
 QY 1127 taacgacggtcattatagcgt 1186
 DB 1145 tcatgagcaacggtatgacggt 1204
 QY 1187 gcatltaatgt 1246
 DB 1205 aggtatlatagattcgtacatgcagacagatgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1264
 QY 1247 aagaagacccgt 1306
 DB 1265 cggagagacttgcacttgcgaattgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1324
 QY 1307 tgcgcaaggt 1338
 DB 1325 ttgcgaggt 1356
 RESULT 15
 AAD17186
 ID AAD17186 standard; DNA; 125401 BP.
 XX
 AC AAD17186;
 XX

22-DEC-1999; 99US-0171503

Mycobacterium tuberculosis

2001 (L1157)

Primary Match	2.88;	Score 38.2;	DB 22;	Length 38734;
Local Similarity	48.08;	Pred. No. 2;		
Matches 109;	Conservative	0;	Mismatches 118;	Indels 0;
				Gaps 0;

XX 88

DE Mycobacterium tuberculosis cosmid M7Y13E10 DNA
XX

Db 478 TRGASDMSYDANATCYNMHSTSKSNTDGDSDCYDASNHTGCKKKAWYANSTRK 419
Qy 1184 tgcgcgttaacgctgacacgacagcgagcgttgctgctgacgacgtg 1243
Db 418 SSYNTAYGNNAKGNKNSGHCANCGSTBDSYBRGNHNRKNTKDDAMNAGNANGNG 359
Qy 1244 acgaagaagacgtcgttgctgacgctcg 1273
Db 358 RTYDAKDRAYATKASYSTSTKTYHTKSK 329

RESULT 22

AA199683/C

ID AA199683 standard; DNA; 4403765 BP.

XX AA199683;

XX AC AA199683;

XX DT 15-JAN-2002 (first entry)

XX DE Mycobacterium tuberculosis strain H37Rv genome SEQ ID NO 2.

XX KW Mycobacterium tuberculosis; strain H37Rv; strain CDC 1551; genome;

XX OS Mycobacterium tuberculosis.

XX PN US6294328-B1.

XX PD 25-SEP-2001.

XX PF 24-JUN-1998; 98US-0103840.

XX PR 24-JUN-1998; 98US-0103840.

XX PA (GENO-) INST GENOMIC RES.

XX PI Fleischmann RD, White OR, Fraser CM, Venter JC;

XX DR WPI; 2001-647261/74.

XX PS Evaluating strain variation of Mycobacterium tuberculosis, comprises

XX PT determining the nucleotide sequence of the strain at positions in the

XX PR genome corresponding to positions where M. tuberculosis strains CDC

XX PS 1551 and H37Rv differ

XX CC Claim 4; SEQ ID NO 2; 3pp + Sequence Listing; English.

XX CC The invention relates to evaluating strain variation within and between

XX CC different populations of the tuberculosis bacterial pathogen,

XX CC Mycobacterium tuberculosis or related Mycobacterium by determining the

XX CC nucleotide sequence of the first strain at positions in the complete

XX CC sequence of the genome that correspond to positions that differ in the

XX CC H37Rv (AA199682). The method is useful for evaluating strain variation of

XX CC M. tuberculosis and has valuable application in the fields of

XX CC tuberculosis genetics, epidemiology, patient treatment and epidemic

XX CC monitoring.

XX CC Note: The sequence data for this patent did not form part of the printed

XX CC specification, but was obtained in electronic format directly from USPTO

XX CC at seqdata.uspto.gov/sequence.html?DocID=6294328B1.

Qy 837 ttgggtgcaaggtgtctcaactaccgcgagcgaattgtgacgagca 890
Db 4270762 TTTGGGTGCGGATGAGGTAAACGCCATCCGACGCGCTGCGCCGACGA 4270769

RESULT 23

AA199682/C

ID AA199682 standard; DNA; 4411529 BP.

XX AA199682;

XX AC AA199682;

XX DT 15-JAN-2002 (first entry)

XX DE Mycobacterium tuberculosis strain H37Rv genome SEQ ID NO 1.

XX KW Mycobacterium tuberculosis; strain H37Rv; strain CDC 1551; genome;

XX OS Mycobacterium tuberculosis.

XX PN US6294328-B1.

XX PD 25-SEP-2001.

XX PF 24-JUN-1998; 98US-0103840.

XX PR 24-JUN-1998; 98US-0103840.

XX PA (GENO-) INST GENOMIC RES.

XX PI Fleischmann RD, White OR, Fraser CM, Venter JC;

XX DR WPI; 2001-647261/74.

XX PS Evaluating strain variation of Mycobacterium tuberculosis, comprises

XX PT determining the nucleotide sequence of the strain at positions in the

XX PR genome corresponding to positions where M. tuberculosis strains CDC

XX PS 1551 and H37Rv differ

XX CC Claim 3; SEQ ID NO 1; 3pp + Sequence Listing; English.

XX CC The invention relates to evaluating strain variation within and between

XX CC different populations of the tuberculosis bacterial pathogen,

XX CC Mycobacterium tuberculosis or related Mycobacterium by determining the

XX CC nucleotide sequence of the first strain at positions in the complete

XX CC sequence of the genome that correspond to positions that differ in the

XX CC H37Rv (AA199682). The method is useful for evaluating strain variation of

XX CC M. tuberculosis and has valuable application in the fields of

XX CC tuberculosis genetics, epidemiology, patient treatment and epidemic

XX CC monitoring.

XX CC Note: The sequence data for this patent did not form part of the printed

XX CC specification, but was obtained in electronic format directly from USPTO

XX CC at seqdata.uspto.gov/sequence.html?DocID=6294328B1.

XX CC Sequence 4411529 BP; 758565 A; 1449983 C; 144602 G; 758379 T; 0 other;

XX CC

Query Match 2.6%; Score 35.6; DB 22; Length 4411529;
Best Local Similarity 57.0%; Pred. No. 1.1e+02;
Matches 65; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

Qy 777 cgaagcggtggtgcttgctgagcgagcgaatgcaacaaacgcgccttgctgacgt 836
Db 4278565 CGCGAGAGTGTGGTTCGGGATGCGGATGCCAAGACGCTGCTGCGGCGCGG 4278506
Qy 837 ttgggtgcaaggtgtctcaactaccgcgagcgaattgtgacgagca 890
Db 4278505 TTTGGGTGCGGATGAGGTAAACGCCATCCGACGCGCTGCGCCGACGA 4278452

RESULT 24

AAS7519

PN WO200175067-A2.
XX
XX 11-OCT-2001.
XX
XX 30-MAR-2001; 2001WO-US08631.
XX
XX 31-MAR-2000; 2000US-0540217.
XX 23-AUG-2000; 2000US-0649167.
XX
XX (HYSE-) HYSEQ INC.
XX
XX Drmanac RT, Liu C, Tang YT;
XX
XX WPI: 2001-639362/73.
XX P-PSDB; ABG02255.
XX
XX New isolated polynucleotide and encoded polypeptides, useful in
XX diagnostics, forensics, gene mapping, identification of mutations
XX responsible for genetic disorders or other traits and to assess
XX biodiversity -
XX
XX Claim 1; SEQ ID No 2246; 103pp; English.
XX
XX The invention relates to isolated polynucleotide (I) and
XX polypeptide (II) sequences. (I) is useful as hybridisation probes,
XX polymerase chain reaction (PCR) primers, oligomers, and for chromosome
XX and gene mapping, and in recombinant production of (II). The
XX polynucleotides are also used in diagnostics as expressed sequence tags
XX for identifying expressed genes. (I) is useful in gene therapy techniques
XX to restore normal activity of (II) or to treat disease states involving
XX (II). (II) is useful for generating antibodies against it, detecting or
XX quantitating a polypeptide in tissue, as molecular weight markers and as
XX a food supplement. (II) and its binding partners are useful in medical
XX imaging of sites expressing (II). (I) and (II) are useful for treating
XX disorders involving aberrant protein expression or biological activity.
XX The polypeptide and polynucleotide sequences have applications in
XX diagnostics, forensics, gene mapping, identification of mutations
XX and to produce other types of data and products to assess biodiversity
XX amino acid sequences. AAS64197-AAS94564 represent novel human
XX diagnostic coding sequences of the invention.
XX Note: The sequence data for this patent did not appear in the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pcl_sequences.
XX
XX Sequence 1938 BP; 500 A; 465 C; 516 G; 457 T; 0 other;
XX
XX Query Match
XX Best Local Similarity 2.6%; Score 35.2; DB 23; Length 1938;
XX Matches 82; Conservative 0; Mismatches 78; Indels 0; Gaps 0;
XX
XX 151 gtcaaaagagccagctgttctgaagaacaaagatccggcgtagtattactgcg 210
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 1048 gttaaagaagtcgaataatgaacgccgctgcgactggaacacgagctattatcggtgcg 1107
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX QY 211 ccggcttaagggcaaatcgccgtatccacgctgtagcgaagaagcgctacttcagtcgctc 270
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 1108 gcgggagatggcaaatcgctcagctcgcgggcaagattatcggtgagctgctgcacgc 1167
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX QY 271 gtgattcgcttgaagcaacgacgacgaatcgagttcgaaac 310
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 1168 gtgattagcgaagcgctgcacggaagcaaggtttacgaac 1207
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX
XX RESULT 27
XX AAS86095
XX ID AAS86095 standard; cDNA; 323 BP.
XX
XX AC AAS86095;
XX
XX DT 13-FEB-2002 (first entry)
XX
XX

DE DNA encoding novel human diagnostic protein #21899.
XX
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
XX Homo sapiens.
XX
XX WO200175067-A2.
XX
XX 11-OCT-2001.
XX
XX 30-MAR-2001; 2001WO-US08631.
XX
XX 31-MAR-2000; 2000US-0540217.
XX 23-AUG-2000; 2000US-0649167.
XX
XX (HYSE-) HYSEQ INC.
XX
XX Drmanac RT, Liu C, Tang YT;
XX
XX WPI: 2001-639362/73.
XX P-PSDB; ABG21908.
XX
XX New isolated polynucleotide and encoded polypeptides, useful in
XX diagnostics, forensics, gene mapping, identification of mutations
XX responsible for genetic disorders or other traits and to assess
XX biodiversity -
XX
XX Claim 1; SEQ ID No 21899; 103pp; English.
XX
XX The invention relates to isolated polynucleotide (I) and
XX polypeptide (II) sequences. (I) is useful as hybridisation probes,
XX polymerase chain reaction (PCR) primers, oligomers, and for chromosome
XX and gene mapping, and in recombinant production of (II). The
XX polynucleotides are also used in diagnostics as expressed sequence tags
XX for identifying expressed genes. (I) is useful in gene therapy techniques
XX to restore normal activity of (II) or to treat disease states involving
XX (II). (II) is useful for generating antibodies against it, detecting or
XX quantitating a polypeptide in tissue, as molecular weight markers and as
XX a food supplement. (II) and its binding partners are useful in medical
XX imaging of sites expressing (II). (I) and (II) are useful for treating
XX disorders involving aberrant protein expression or biological activity.
XX The polypeptide and polynucleotide sequences have applications in
XX diagnostics, forensics, gene mapping, identification of mutations
XX and to produce other types of data and products to assess biodiversity
XX amino acid sequences. AAS64197-AAS94564 represent novel human
XX diagnostic coding sequences of the invention.
XX Note: The sequence data for this patent did not appear in the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pcl_sequences.
XX
XX Sequence 323 BP; 95 A; 86 C; 84 G; 58 T; 0 other;
XX
XX Query Match
XX Best Local Similarity 2.6%; Score 35; DB 23; Length 323;
XX Matches 59; Conservative 0; Mismatches 40; Indels 0; Gaps 0;
XX
XX 1242 gtagcaagaagaccctcgcttctgcaagcttcgtcccggaacatacgaatcgccc 1301
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 37 ggcgcgcgagatggggcgtgctgcgtcccaaccgcggacacattcggagtgcca 96
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX QY 1302 gctgttcgcaagagctgcggaacacatgagaagaag 1340
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 97 ccggaagtgcgaagagctgttccattcgaatcgaagga 135
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX
XX RESULT 28
XX AAF25080/C
XX ID AAF25080 standard; DNA; 697 BP.
XX
XX AC AAF25080;
XX

Query Match	2.6%;	Score 35;	DB 23;	Length 1689;
Best Local Similarity	59.6%;	Pred. No. 4.2;		
Matches	59;	Conservative	0;	Mismatches 40;
			Indels	0;
			Gaps	0;

The present sequence is human G-protein coupled receptor-3 (GCR3) cDNA. GCR3 is useful in somatic or germ-line gene therapy to correct a genetic deficiency, to express a conditionally lethal gene product and to express a protein which affords protection against intracellular parasites and also for diagnosis of disorders associated with expression of GCR3. GCR3 is also useful for generating hybridisation probes useful

PI Drmanac RT, Liu C, Tang YT;
XX WPI: 2001-639362/73.
DR P-PSDB: ABG21554.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity
XX
PS Claim 1; SEQ ID No 21545; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 1875 BP; 393 A; 554 C; 535 G; 393 T; 0 other;

Query Match 2.6%; Score 34.8; DB 23; Length 1875;
Best Local Similarity 52.0%; Pred. No. 5.1;
Matches 78; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

OY 962 acaatcagatttcggtatcgaagaagcgcgaagaagctgtcgtcgtgttgcgc 1021
DB 800 ATAACTGAAATATCTGATCCTTGATGACGCGGAGGAGGATTGCGCAGTTTGGCG 741
OY 1022 cgcagcgcgaacaatactccatcagcgcgcacactctcgtccattcctaaacaac 1081
DB 740 AAAAGCTGGGGTGAATATATATCGCCGCCACCTCATGAAACATGCGAAGCAGCAACA 681
OY 1082 tcttaagltcacgacgcgcgtcaacgcgcg 1111
DB 680 TCACACATGCGCTGAAATATATGCAAAAGCGC 651

RESULT 34
AAS82534
ID AAS82534 standard; cDNA; 2196 BP.
XX
AC AAS82534;
XX
DT 13-FEB-2002 (first entry)
XX

DE DNA encoding novel human diagnostic protein #18338.

KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

OS Homo sapiens.

XX WO200175067-A2.

XX 11-OCT-2001.

XX

PF 30-MAR-2001; 2001WO-US08631.
XX
XX 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
XX (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI: 2001-639362/73.
DR P-PSDB: ABG18347.
XX

PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity
XX
PS Claim 1; SEQ ID No 18338; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 2196 BP; 497 A; 570 C; 620 G; 509 T; 0 other;

Query Match 2.6%; Score 34.8; DB 23; Length 2196;
Best Local Similarity 52.0%; Pred. No. 5.5;
Matches 78; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

OY 962 acaatcagatttcggtatcgaagaagcgcgcgaagaagctgtcgtcgtgttgcgc 1021
DB 914 ataagtgatattatctgtatccttgatgcgcgcgcgaagaagtttgcgcgttgcgc 973
OY 1022 cgcagcgcgaacaatactccatcagcgcgcacactctcgtccattcctaaacaac 1081
DB 974 aaaagctgggggtgaatatatcgcgcacacacatcatgaacatgcgaagaagcaca 1033
OY 1082 tcttaagltcacgacgcgcgtcaacgcgcg 1111
DB 1034 tcacaatgcgtgaatatatgcacaagcgc 1063

RESULT 35
AAS85733/c
ID AAS85733 standard; cDNA; 2196 BP.
XX
AC AAS85733;
XX

DT 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #21537.

KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

Query Match	Best Local Similarity	Score	DB	Length
962	acataatgatttcgttaccagaagaagcgcagcaagaagctcttctgctggttcgc	1021	2.6%	2909;
914	ataagctgatatatctggaaccttcttgatgacggagcagaagaagattcttcacattttgc	973	52.0%	6.3;
	Matches	78;	Conservative	0;
		Mismatches	72;	Indels
				Gaps
				0;

The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. A6564197-A654564 represent novel human diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).

Sequence 3810 BP; 894 A; 1035 C; 1032 G; 849 T; 0 other;

Query Match 2.68; Score 34.8; DB 23; Length 3810

Query Match	2.68;	Score 34.4;	DB 23;	Length 2783,
Best Local Similarity	52.98;	Pred. No. 8.2;		

sequences AAS59506-AAS59804 represent DNA molecules encoding lipoteichoic acid (LTA) and surface-associated proteins of *S. aureus*. The proteins and their associated DNA sequences are used in the treatment, prevention and diagnosis of medical conditions caused by *P. acnes*. The disorders include SAHO syndrome (syphilis), acne, pustulosis, hyperostosis and osteomyelitis, uveitis and endophthalmitis. *P. acnes* is also involved in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaris. A method for detecting the presence or absence of *P. acnes* in a patient comprises contacting a sample with a binding agent that binds to the proteins of the invention and determining the amount of bound protein in the sample. The polypeptides are used as antigens in the production of antibodies specific for *P. acnes* proteins. These antibodies can be used to downregulate expression and activity of *P. acnes* polypeptides and therefore treat *P. acnes* infections. The antibodies may also be used as diagnostic agents for determining *P. acnes* presence, for example, by enzyme linked immunosorbent assay (ELISA). This sequence encodes the polypeptides shown in AAU52925-AAU53195 and AAU57543-AAU57545.

CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 2367 BP; 530 A; 691 C; 645 G; 501 T; 0 other;

Query Match 2.5%; Score 33.8; DB 23; Length 2367;
Best Local Similarity 54.4%; Pred. No. 12;
Matches 68; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 186 gaatcggcgctagttactctgctgcgcgcgttcaggaataatccgcgtattcacctg 245
DB 859 GGAACACGGCGATTATTCGTCGGCGCGCATGCGCAAAATCGCTCAGCAACGCGGCGC 800

QY 246 cgaagaagcgcgtactctcaagtcagtcgattgacgttgaagcaagcaagcaatcgagtt 305
DB 799 AGATTATGCGGCGACGCTGCGCGACGCGTGTATGCGAAGCGGTCACGAAGGAGTTTA 740

QY 306 cgaac 310
DB 739 CGAAC 735

RESULT 45

AAS73427/c
ID AAS73427 standard; CDNA; 2367 BP.

AC AAS73427;

DT 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #9231.

KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

OS Homo sapiens.

PN WO200175067-A2.

PD 11-OCT-2001.

PF 30-MAR-2001; 2001WO-US08631.

PR 31-MAR-2000; 2000US-0540217.

FR 23-AUG-2000; 2000US-0649167.

PA (HYSE-) HYSEQ INC.

PI Drmanac RT, Liu C, Tang YT;

DR WPI; 2001-639362/73.

DR P-PSDB; ABG09240.

PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity

PS Claim 1; SEQ ID NO 9231; 103pp; English.

XX
CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
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CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
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XX
SQ Sequence 2367 BP; 530 A; 691 C; 645 G; 501 T; 0 other;

Query Match 2.5%; Score 33.8; DB 23; Length 2367;
Best Local Similarity 54.4%; Pred. No. 12;
Matches 68; Conservative 0; Mismatches 57; Indels 0; Gaps 0;

QY 186 gaatcggcgctagttactctgctgcgcgcgttcaggaataatccgcgtattcacctg 245
DB 859 GGAACACGGCGATTATTCGTCGGCGCGCATGCGCAAAATCGCTCAGCAACGCGGCGC 800

QY 246 cgaagaagcgcgtactctcaagtcagtcgattgacgttgaagcaagcaagcaatcgagtt 305
DB 799 AGATTATGCGGCGACGCTGCGCGACGCGTGTATGCGAAGCGGTCACGAAGGAGTTTA 740

QY 306 cgaac 310
DB 739 CGAAC 735

Search completed: June 30, 2002, 13:46:02
Job time: 67395 sec